

2011-03-07 Monday Morning Notes

Sunday, March 06, 2011
7:51 PM

On-call

- Monday/Tuesday: Vladimir
- Wednesday/Thursday: Keith
- Friday: Werkema

Stacking and Transfers

- Stacked 25.1mA/hr with a production of 21.1 pbars/Mp with 8.34 Tp
- Unstacked 1418E10 (472E10/day) 157 transfers (52/day) in 50 sets (17/day) with an average overall efficiency of 95.3%
 - Removing transfers > 31mA, 96%

Studies

- Stopped stacking at 19:22 to start stacktail studies
- The fan out phasing is done. Not many changes, just small tweaks. I did find what I consider a lot of noise on A:SPTW29 - I'll discuss this with Pete when I see him.
- Abort permit studies completed.
- Acc/Deb coasting beam valve safety system testing

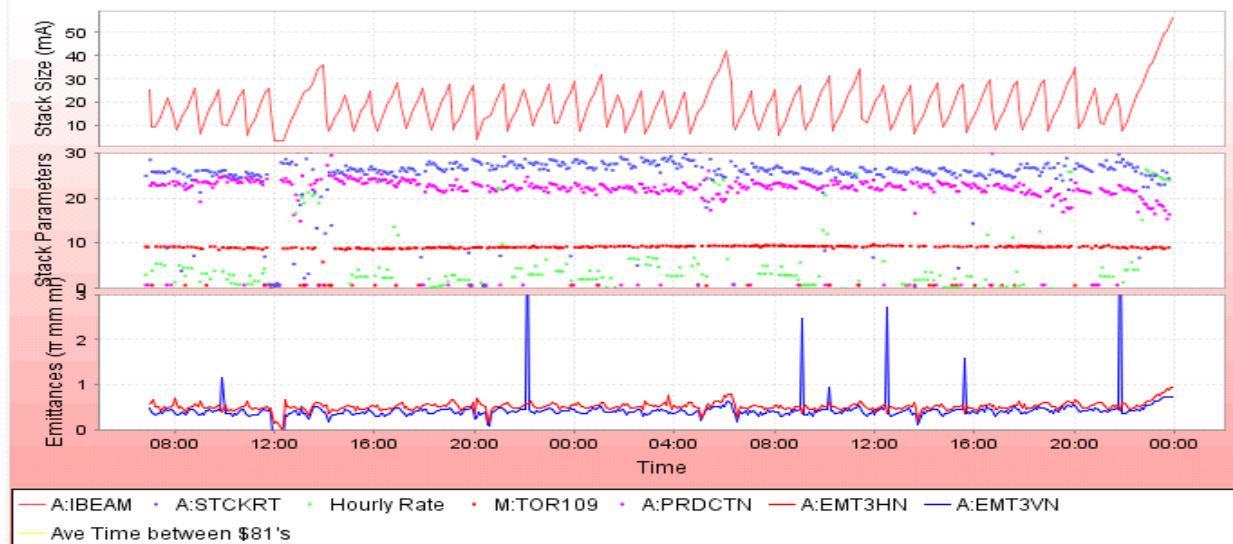
Shutdown

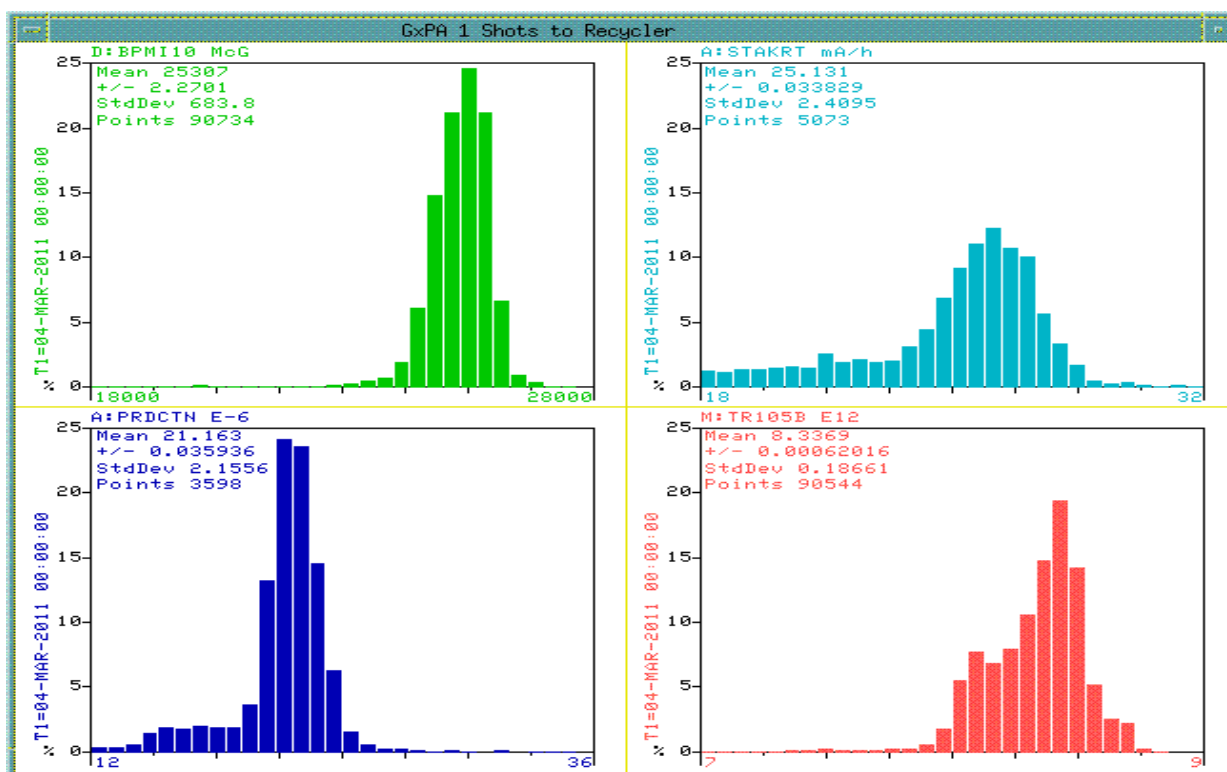
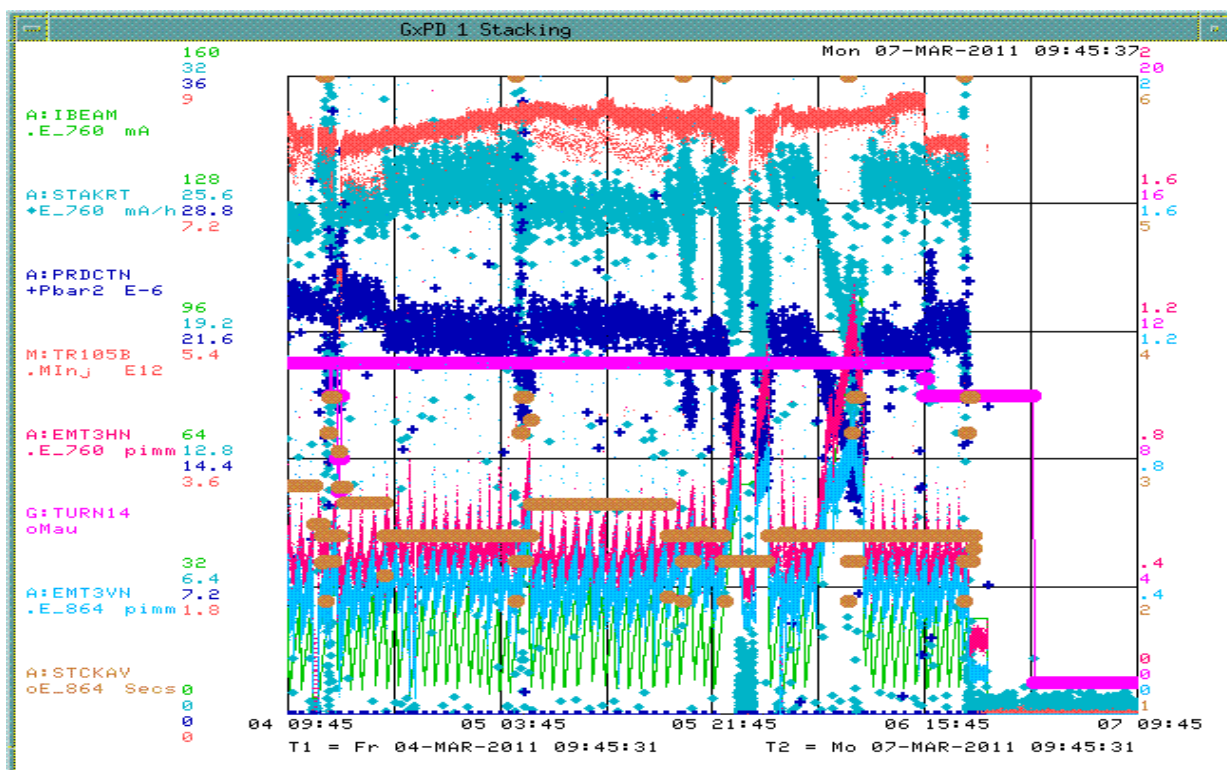
- Pbar Rings/Transport controlled access underway.
- LCW leaks
 - Orange hose near IQ23 on supply header.
 - Orange hose on EQ3B

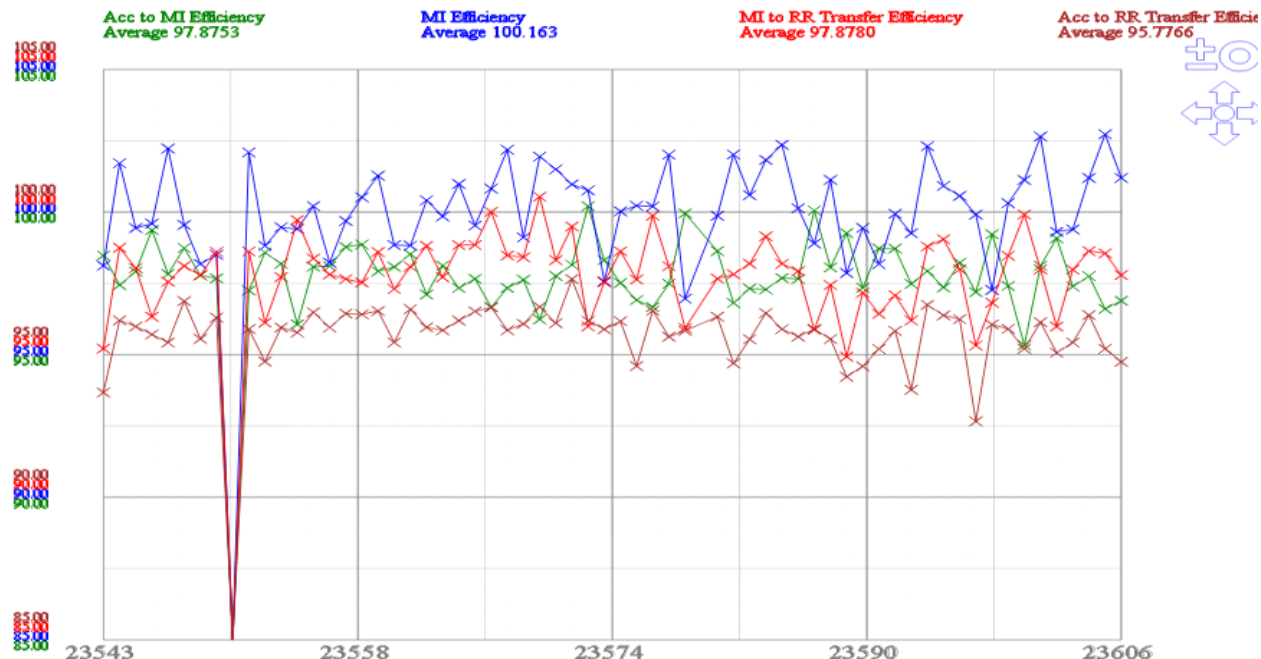
Numbers

- Stacking
 - Pbars stacked: 1387.81 E10
 - Time stacking: 59.39 Hr
 - Average stacking rate: 23.37 E10/Hr
- Uptime
 - Number of pulses while in stacking mode: 85928
 - Number of pulses with beam: 81047
 - Fraction of up pulses was: 94.32%
- The uptime's effect on the stacking numbers
 - Corrected time stacking: 56.02 Hr
 - Possible average stacking rate: 24.77 E10/Hr
 - Could have stacked: 1471.39 E10/Hr
- Recycler Transfers
 - Pbars sent to the Recycler: 1406.33 E10
 - Number of transfers : 161
 - Number of transfer sets: 51
 - Average Number of transfer per set: 3.16
 - Time taken to shoot including reverse proton tuneup: 00.56 Hr
 - Transfer efficiency: 94.43%

- ## Plots







Column 1 Number _0_Pbar Transfer Shot #	Column 4 Number_3 Transfer Time	Column 21 Number _20_A-I BEAMB sampled on \$91 (A-BEA M7), E10	Column 22 Number _21_A-I BEAMB sampled on \$94 (A-BEA M9), E10	Unstacked (mA)	Column 23 Number _22_R: BEAMS (R-BEA ME0[0]) pre xfer E10	Column 24 Number _23_R: BEAM (R-BEA ME0[1]) post xfer, E10	Stashed	Acc to RR Eff	Acc to MI Eff	Acc to MI2 Eff	Acc to MI * Acc to MI2 Efficiency	Trans fers	Sets	Column 5 Number _4_Acc Horizontal Emittance	Column 6 Number _5_Acc Vertical Emittance	Column 8 Number _7_Acc Longitudinal Emittance	
	Totals =>			1395.95			1330.90	95.34%	97.76%	97.85%	95.66%	160	51	5.0594	3.8552	1.9305	
	Daily Average =>			465.32			443.63					53	17				
23606	Sunday, March 06, 2011	18:32	27.23	6.85	22.57	361.36	382.12	21.40	94.83%	96.93%	97.43%	94.44%	3	1	4.872	4.046	1.93
23605	Sunday, March 06, 2011	17:40	27.77	6.83	23.10	342.03	363.37	21.92	94.89%	96.30%	98.39%	94.76%	3	1	4.823	3.757	1.915
23604	Sunday, March 06, 2011	16:46	27.28	6.69	22.77	322.49	343.82	21.91	96.22%	97.17%	98.32%	95.53%	3	1	4.863	3.841	1.961
23603	Sunday, March 06, 2011	15:51	27.83	6.51	23.49	302.40	324.37	22.48	95.70%	97.47%	96.83%	94.38%	3	1	4.864	3.743	1.946
23602	Sunday, March 06, 2011	14:52	30.59	7.51	25.25	280.44	303.93	23.97	94.94%	98.46%	97.78%	96.28%	3	1	5.095	3.929	1.942
23601	Sunday, March 06, 2011	13:52	26.91	6.56	22.52	260.51	281.67	21.61	95.96%	97.82%	99.41%	97.24%	3	1	5.011	3.674	1.921
23600	Sunday, March 06, 2011	13:01	27.65	6.62	23.21	239.56	261.40	22.23	95.78%	96.42%	95.92%	92.48%	3	1	5.069	3.851	1.959
23599	Sunday, March 06, 2011	12:07	27.66	6.50	23.36	218.47	240.48	22.40	95.93%	97.61%	98.06%	95.72%	3	1	4.73	4.042	1.951
23598	Sunday, March 06, 2011	11:14	27.71	6.73	23.17	197.83	219.62	22.23	95.96%	98.90%	97.23%	96.16%	3	1	5.035	3.894	1.962
23597	Sunday, March 06, 2011	10:25	107.45	12.22	99.47	114.44	200.87	91.39	91.87%	96.85%	96.54%	93.50%	6	1	7.691	5.514	1.716
23596	Sunday, March 06, 2011	5:30	29.07	6.87	24.33	476.22	498.57	23.38	96.08%	98.38%	98.75%	97.16%	3	1	5.033	3.868	1.957
23595	Sunday, March 06, 2011	4:31	25.67	6.33	21.54	459.96	479.91	20.74	96.30%	97.86%	97.52%	95.43%	3	1	4.747	3.558	1.988
23594	Sunday, March 06, 2011	3:24	26.10	2.24	23.89	443.51	465.39	23.07	96.56%	98.01%	99.97%	97.98%	3	1	3.113	2.369	1.893
23593	Sunday, March 06, 2011	2:27	61.55	6.80	79.37	381.46	450.28	73.47	92.56%	97.37%	96.68%	94.14%	6	1	6.549	4.927	1.859
23592	Saturday, March 05, 2011	21:48	26.88	6.40	22.70	367.70	388.73	21.76	95.87%	98.39%	99.28%	97.68%	3	1	4.856	3.816	1.939
23591	Saturday, March 05, 2011	20:54	27.72	7.16	23.80	347.73	369.67	22.70	95.38%	98.73%	97.76%	96.52%	3	1	5.361	4.211	1.959
23590	Saturday, March 05, 2011	20:04	36.10	8.46	29.74	322.42	349.65	28.04	94.28%	97.29%	96.53%	93.91%	3	1	6.124	4.571	1.916
23589	Saturday, March 05, 2011	18:50	31.64	7.35	26.40	299.90	324.35	24.99	94.64%	99.19%	97.54%	96.75%	3	1	5.654	4.15	1.902
23588	Saturday, March 05, 2011	17:45	30.54	6.84	26.46	276.84	301.46	25.25	95.42%	97.85%	98.84%	96.71%	3	1	5.12	4.284	1.93
23587	Saturday, March 05, 2011	16:39	30.53	6.94	26.33	253.62	278.24	25.22	95.79%	99.45%	98.64%	98.10%	3	1	5.296	4.048	1.945
23586	Saturday, March 05, 2011	15:31	28.47	6.50	24.76	231.75	254.89	26.33	95.47%	97.48%	97.29%	94.84%	3	1	5.016	3.819	1.943
23585	Saturday, March 05, 2011	14:32	29.30	6.61	25.49	208.72	232.65	24.42	95.79%	98.08%	99.30%	97.39%	3	1	4.99	3.848	1.955
23584	Saturday, March 05, 2011	13:27	28.14	6.28	24.48	186.42	209.51	23.56	96.22%	97.14%	98.24%	95.42%	3	1	4.596	3.702	1.945
23583	Saturday, March 05, 2011	12:30	31.03	7.11	26.79	161.97	186.99	25.56	95.41%	97.64%	97.89%	95.58%	3	1	5.029	3.868	1.903
23582	Saturday, March 05, 2011	11:26	34.66	8.17	29.31	135.39	162.58	27.71	94.52%	96.75%	98.51%	95.30%	3	1	5.148	4.236	1.886
23581	Saturday, March 05, 2011	10:12	31.85	7.25	27.39	110.03	135.88	26.33	96.10%	98.52%	98.77%	97.31%	3	1	5.021	3.926	1.929
23579	Saturday, March 05, 2011	9:05	29.08	6.85	25.08	86.73	110.36	23.99	95.63%	99.06%	97.04%	96.13%	3	1	4.86	3.936	1.914
23578	Saturday, March 05, 2011	8:03	26.26	6.13	22.99	65.13	86.92	21.97	95.56%	97.12%	98.29%	95.46%	3	1	4.9	3.629	1.938
23577	Saturday, March 05, 2011	7:09	26.36	6.49	22.72	43.70	65.29	21.85	96.19%	96.69%	97.41%	94.19%	3	1	4.742	3.696	1.952
23576	Saturday, March 05, 2011	6:14	45.21	6.81	41.62	5.53	43.97	39.19	94.15%	97.29%	96.89%	94.26%	4	1	6.094	4.62	1.922
23575	Saturday, March 05, 2011	4:28	25.46	5.25	21.92	352.72	373.26	21.08	96.16%	97.69%	97.83%	95.57%	3	1	4.662	3.464	1.92
23574	Saturday, March 05, 2011	3:38	27.25	5.75	23.66	332.36	354.57	22.74	96.12%	98.22%	97.03%	95.30%	3	1	5.084	3.776	1.937
23573	Saturday, March 05, 2011	2:41	25.05	4.89	21.75	313.42	333.95	20.94	96.26%	100.26%	100.75%	101.02%	3	1	4.529	3.145	1.939
23572	Saturday, March 05, 2011	1:54	26.55	6.59	22.51	292.85	314.33	21.96	97.57%	98.04%	98.97%	97.03%	3	1	4.993	3.855	1.97

